

Du-Co Ceramics DC-65 Cordierite

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Properties reported below are averages from unglazed specimens. Tests performed to ASTM specifications. Actual values may vary.

Information provided by DU-CO Ceramics Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Du-Co-Ceramics-DC-65-Cordierite.php

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in ³	
Water Absorption	1.0 - 5.0 %	1.0 - 5.0 %	Porous

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	7.5	7.5	
Tensile Strength, Ultimate	48.0 MPa	6960 psi	
Flexural Strength	97.0 MPa	14100 psi	
Compressive Strength	483 MPa	70100 psi	
Impact Test	0.510 J	0.376 ft-lb	unspecified impact test

Thermal Properties	Metric	English	Comments
CTE, linear	2.90 $\mu\text{m}/\text{m}\cdot\text{°C}$	1.61 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 650 °C	@Temperature 68.0 - 1200 °F	
Thermal Conductivity	3.40 W/m-K	23.6 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1100 °C	2010 °F	Safe Operating Temp

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.0	6.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	7.10 kV/mm	180 kV/in	
Dissipation Factor	0.0080	0.0080	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Loss Index	0.048	0.048	1 MHz

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